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TITLE: Removing hair from animal skin and  
hide - by pretreatment in soln. of sodium  
hydroxide and hydrogen peroxide followed by white lime hair  
removal

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PATENT-FAMILY:

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BASIC-ABSTRACT:

In an environment-friendly process for dehairing raw animal skin and hides, fresh or steeped or in the vat, (a) the skin or hide is treated for 1-3hrs in 30-150 pts. wt., w.r.t. the wt. of hide, of a bath contg. 2.5-10% NaOH soln. and 1-3 (2) pts. wt. of 100% H<sub>2</sub>O<sub>2</sub>, at 20-32 deg. C and after rejecting the bath, (b) the pelts are fed to white lime dehairing, graining and skin sepn., and the skins are neutralised.

ADVANTAGE- Loading of the waste. water from the tannery is reduced.

In an example 300 kg of oxhide was steeped for 30 mins at 30 deg. C is 200 pts. of water contg. 0.5 pts. of surfactant, and the bath was rejected, followed by steeping for 210 mins, at 30 deg. C in 130 pts. of water contg. 0.5 pts of surfactant. The 1st dehairing stage was in 70 pts of water at 24 deg.C contg. 6 kg of 100% H2O2 and 9 kg of 100% NaOH for 150 mins at 6 rpm. The 2nd dehairing stage involved washing with 150 pts. of water at 30 deg. C for 15 mins., followed by treatment Ca(OH)2 at 6 rpm for 240 mins, and alternating 15 mins. of movement and 30 mins of rest.

CHOSEN-DRAWING: Dwg.0/0